

US006400647B1

(12) United States Patent Huntress

(10) Patent No.:

US 6,400,647 B1

(45) Date of Patent:

Jun. 4, 2002

(54)	REMOTE DETECTION SYSTEM				
(75)	Inventor:	Gary B. Huntress, Swansea, MA (US)			
(73)	Assignee:	The United States of America as represented by the Secretary of the Navy, Washington, DC (US)			
(*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.			
(21)	Appl. No.	: 09/728,876			
(22)	Filed:	Dec. 4, 2000			
(51)	Int. Cl.7.	H04B 1/38 ; G01S 3/80			
(52)	U.S. Cl				
(58)	Field of S	Search			

4.885.724 A	* 12/1989	Read et al 367/77
5.060,206 A		DeMetz et al 367/136
5,703,835 A	* 12/1997	Sharkey et al 367/124
5.721.712 A		LaPointe 367/136
		Hollander 367/118

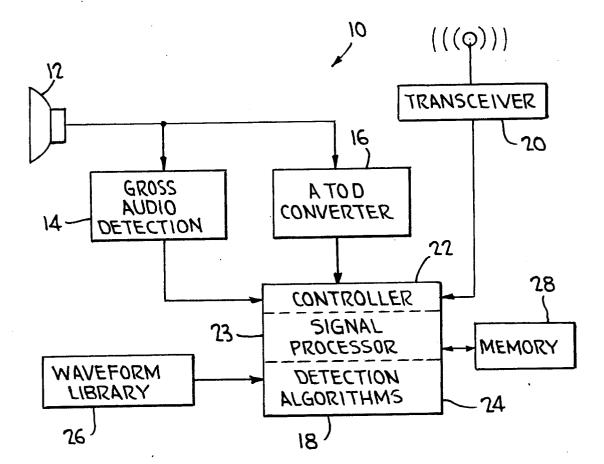
* cited by examiner

Primary Examiner—Ian J. Lobo (74) Attorney, Agent, or Firm—Michael J. McGowan; James M. Kasischke; Prithvi C. Lall

(57) ABSTRACT

A remote acoustic detection system includes at least one detection unit delivered to a remote or inaccessible location by a missile or other aircraft. The detection unit monitors acoustic events at the location such as aircraft takeoffs and landings and preferably is provided the capability of classifying the events, for example, as to the event or type of aircraft. A sleep mode can be provided to conserve power such that the unit is activated only in the presence of threshold acoustic levels. The unit also includes a wireless transceiver for relaying data to a central monitoring authority, which may be a passing or loitering aircraft. Each detection unit may be provided with an address for allowing monitoring of a network of detection units.

14 Claims, 2 Drawing Sheets



(56) References Cited

U.S. PATENT DOCUMENTS

3.552.520 A	*	1/1971	Naubereit 367/136
			Hoff et al 367/136
4.408.533 A	*	10/1983	Owen et al 102/211
4.811.308 A	*	3/1989	Michel 367/136